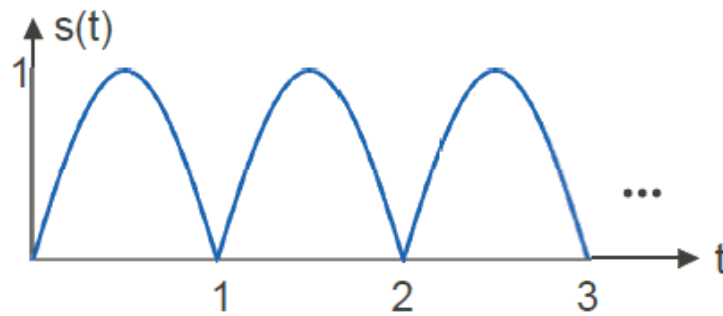


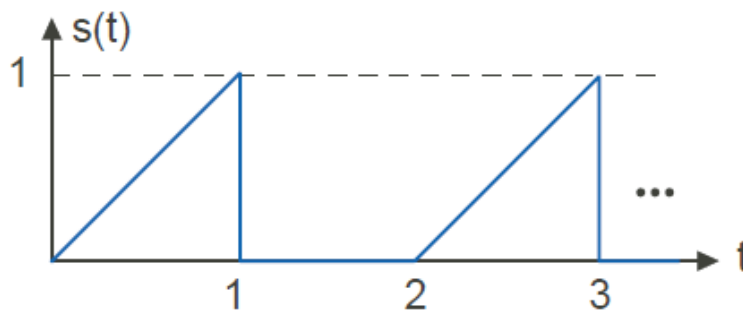
## Problem 4.2: Fourier Series

Find the Fourier series representation for the following periodic signals (Figure 4.19). For the third signal, find the complex Fourier series for the triangle wave **without** performing the usual Fourier integrals. Hint:

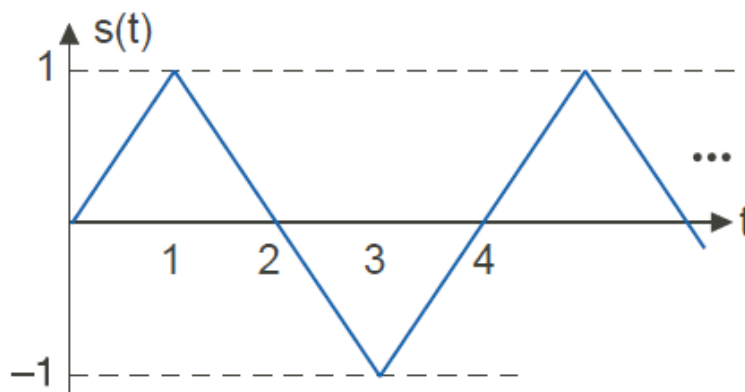
How is this signal related to one for which you already have the series?



(a)



(b)



(c)

Figure 4.19 Fourier Series